

**TWO CORDLESS ACTIVATING CHARGERS ACTUATING ONE ANOTHER ABOUT  
VEHICLES AND PERFORMING THE ACTIVATION OF OTHER DEVICES ALSO**

**CROSS-REFERENCE TO RELATED APPLICATIONS**

This application is a continuation-in-part of application serial number **09/503,919**, filed on February 11, 2000, now abandoned which is a continuation-in-part of application serial number **08/980,485** filed on November 28, 1997 now abandoned and application serial number **08/390,484** filed on February, 17, 1995, now abandoned.

**BACKGROUND OF THE INVENTION**

**1. Field of the Invention**

The present invention relates to energy and specifically to public utilities, vehicles, computers, televisions, refrigerators, electric ranges, air conditioners, motorized-wheelchairs, backup systems for the **Patent Office (PTO)** even ~~Hospitals, homes, condominiums Banks and Generating Stations~~ Hospitals, houses, condominiums, Banks, Generating Stations, or Substations. The above **Cordless Activating Energy (CAE)**, however, can save thousands of dollars yearly in maintenance cost for U.S. organizations. While safety and environmental concerns each of which is an important issue, a **CAE Electric powered locomotive** will provide **CAE** concerning its load. On earth, only one nation will be generating **Giant CAE Systems**, namely, **THE UNITED STATES OF AMERICA**.

**2. Description of the Prior Art**

**Two Cordless Actuating Battery Systems** actuating one another, and performing the activation on other devices each of which is a revolutionary 21st. Century reality, such that **AMERICA** will not have to depend on foreign oil.

## SUMMARY OF THE INVENTION

Accordingly, one object about this present invention is to provide dual cordless activating chargers for vehicles such as, Automobiles, Trucks, tractors, "Motorboats," ships, Aircrafts, Buses, Motorcycles, Scooters, Forklifts, Electric Jacks, Fire Fighting Apparatuses and Snow Removal Equipment.

Nevertheless, to accomplish the foregoing, and other objects, two cordless battery chargers actuating one another in a vehicle, other vehicles and performing the actuation in other devices comprises: dual conventional battery chargers, a first 2.5A battery charger defining 96 percent efficiency, a second 2.5A charger having the 96 percent efficiency also, ~~an external power switch mounted about the first charger for placement of a user's finger, there actuated by depressing a surface of the power switch, thereby activating the chargers simultaneously, and defined on a column of the vehicle also, a buck-mode switching regulator IC1 controlling the external power switch and the IC1 having a charge pump for generating a positive gate-drive voltage of the power switch, a battery charging current having a voltage across a 25 Mohms resistor (R3), and is amplified by an op amp including positive voltage feedback to the IC1, a chip for maintaining the charging current at 2.5A, a circuit thereby, supplying the current to a separate load up to a limit set via a current sense transformer T1, and a sense resistor R1 for improving efficiency, thereby lowering power dissipation in the resistor R1, while charging. The transformer T1 turns ratio (1:70) routes 1/70 via the total battery plus load current through the resistor R1. The transformer T1 defining the feedback voltage to enable IC1 to limit the overall current to a level compatible via the external components, which is a 100mV current limit.~~ a first switch, thereby, mounted about the first charger for placement of a user's finger, there actuated by depressing a surface, and a second switch activated, when the surface is,

thereby depressed: activating the first, and second chargers simultaneously, the first and second switches in a column of the vehicle also, a buck-mode switching regulator IC1 thereby controlling the first and second switches; the IC1 having a charge pump for including a positive gate-drive voltage of the first and second switches, a battery charging current by way of a voltage across a 25-Mohms resistor (R3), and is amplified via an op amp including positive-voltage feedback to the IC1, a chip for maintaining the charging current at 2.5-A, a circuit for supplying the current to a separate load up to a limit set by a current-sense transformer T1 and a sense resistor R1 for improving efficiency, thereby lowering power dissipation in the resistor R1 when charging. The transformer T1 turns ratio (1:70) routes 1/70 via the total battery-plus-load current about the resistor R1. The transformer T1 defining the feedback voltage to enable the IC1 to limit the overall current to a level compatible with the external components, which is a 100mV current-limit threshold.

According to another object regarding the invention, a pair of cordless battery operated actuating chargers activating one another in a vehicle, other vehicles, and thereby performing the activation of many devices comprises: a first charger actuating a second charger whereby the second charger performing the activation about the first charger, when a surface about a first, and second power switch is depressed, ~~DC to AC converter for converting DC current via alternating current, a second DC AC converter for converting the DC current to the alternating current, a first AC adaptor, thereby coupling the chargers to the converters, a second AC adaptor for joining the chargers to the converters when the chargers defining full charged energy, activating one another about a switch, a first battery cartridge for restoring life about a first battery, a second battery cartridge for restoring the live of a second battery, a six cell feeder for distributing restorable agents to the batteries. The vehicle has a motor~~

~~mounted adjacent the chargers. The motor having a polarized plug. The chargers performing the activation via the motor, when the plug is connected through the first converter. The chargers performing the activation of the motor and starting the vehicle. The batteries are coupled to an alternator for its belt and pulley to spin 60 cps/60 Hz via the motor. The chargers performing the activation of the motor, and thereby activating one another. The chargers thereby performing the activation of one another when the motor is turned off. The chargers actuate the other vehicles in the air, on the earth and in the water. The chargers performing the activation of the other devices in homes, condominiums, Hospitals, housing developments, Air Ports, offices, and Generating stations or Substations. The chargers actuating computers, televisions, including refrigerators. The chargers activating a cordless escalator about Air Ports, and Train Stations. The chargers activate snow removal equipment, fire fighting equipment and motorized wheelchairs. The chargers, thereby performing the activation of satellites, and of systems for interception of missals. The chargers connected through series parallel are equal to the sum of the power values consumed via each load. The cartridges have a LED, and resistors to thereby activate a first and second gear motor, the life is restored when the gear motors free the agents. The chargers activating backup systems for preventing the loss of data regarding computers. a first DC-AC converter for changing DC current to alternating current, a second DC-AC converter for fixing the DC current to the alternating current, a first AC adaptor, thereby coupling the first charger to the second converter, a second AC adaptor for coupling the second charger to the first converter, when the first and second chargers thereby including full charged energy: activating one another by the first and second switches, a first battery cartridge for renewing life of a first battery, a second battery cartridge for restoring the life of a second battery, a first six cell feeder having six penetrable seals for conveying an ionic conductor, where~~

upon penetration, six battery cells are renewed to the first battery, a second six cell feeder about six penetrable seals for bearing the ionic conductor, where upon penetration, six battery cells are replenished about the second battery. The vehicle having a motor mounted adjacent the first and second chargers. The motor having a polarized plug. The first and second chargers performing the activation of the motor, when the plug is connected to the first converter. The first and second chargers performing the actuation about the motor and starting the vehicle. The batteries are connected to an alternator for its belt and pulley to spin 60 cps/60 Hz by way of the motor. The first, and second chargers performing the activation of the motor, and thereby activating one another. The first and second chargers performing the actuation about one another when the motor is thereby turned off. The first and second chargers, thereby, activate the other vehicles in the air, upon earth, and in the water. The first and second chargers performing the actuation about the other devices in homes, condominiums, Hospitals, housings, Air Ports, offices and Generating Stations/Substations. The first, and second chargers actuating computers, televisions and refrigerators. The first and second chargers activating cordless escalators at Air Ports. The first and second chargers activating snow removal machines, fire trucks and electric wheelchairs. The first and second chargers, thereby performing the activation of satellites, and systems for interception of missals. The first, and second chargers connected through series-parallel are equal to the sum of the power values consumed about each load. The cartridges having a LED, and resistors to actuate a first and second gear motor, the life is restored when the gear motors free the ionic conductors. The first and second chargers activate backup systems for, thereby preventing the loss of data regarding computers under fault conditions.

## BRIEF DESCRIPTION OF THE DRAWINGS

~~Further objects and advantages given herewith concerning the~~  
Further objects and advantages given herewith of the  
present invention will become apparent via the drawings, and  
the preferred embodiments concerning the description herein.

FIG. 1 is a view of two cordless activating chargers  
actuating one another, and activating other devices as well;

FIG. 2 is a block diagram simplifying the first 2.5A  
cordless activating charger;

FIG. 3 is a block diagram simplifying the other 2.5A  
cordless activating charger;

FIG. 4 is a perspective view of an electric vehicle,  
and a polarized plug connected to a first converter;

FIG. 5 is a cut surface of a first battery cartridge  
and its six cell feeder for distributing restorable agents;

FIG. 6 is a cut surface of a second cartridge having  
its six cell feeder for distributing restorable agents also;

~~FIGS. 7, 7F, 7G, 7H have a block diagram via a light-~~

FIGS. 7, 7F, 7G, 7H have a block diagram of a light-  
actuated circuit, a LED 0, a load circuit and an alternator;

FIGS. 8-8G are views about an air conditioner and an  
electric range connected with the cordless actuating system;

FIG. 9 is a block diagram defining a PWM Controller;

FIGS. 10-10G define a view of a television connected  
with the charging system, and a block diagram via a Circuit;

FIG. 11 is a view of a computer comprising a printer  
each of which is connected to the cordless actuating system;

FIGS. 12-12G are block diagrams of a modal including  
[[its]] ~~switch~~ two switches and the activating system.

## DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to FIG. 1, dual conventional 2.5-A battery  
chargers H1 to H2 charges one another, as two LEDs Ra and Rb  
emit light about the chargers H1-H2. The charger H1 defines  
a battery B1, and the charger H2 includes a battery B2 about

the 2.5 A activating circuits H1-H2 shown in FIGS. 2-3. The ~~chargers H1-H2 delivers 2.5 A with efficiency, as high, as 96~~ chargers H1-H2 deliver 2.5 A with efficiency, as high, as 96 percent, since battery chargers are usually designed without regard for efficiency, seeing that the heat generated by low efficiency chargers will present a problem. A heat current-mode P.W.M. controller is a multi-input open-loop comparator that sums three signals: output voltage error signal via the reference voltage, current-sense signal, and slope compensation ramp (FIG. 9). The PWM controller is a direct summing, thereby lacking a traditional error amplifier, and the phase shift associated with it. The direct summing configuration, however, approaches the ideal of cycle-by-cycle control over the output voltage.

Under heavy loads, this controller operates via full PWM mode. Thus, each pulse from an oscillator sets the main PWM latch, which turns on the high-side switch for a period, thereby, determined via the duty factor (approximately  $V_{OUT}/V_{IN}$ ). Since the high-switch turns off, a synchronous rectifier latch is now set. ~~60ns later the low-side switch turns~~ fier latch is now set. 60ns later its low-side switch turns on, and stays on until the beginning of the next clock cycle (via continuous mode), or until the inductor current crosses zero (in discontinuous mode). Under fault conditions, where ~~the inductor current thereby exceeds the 100mV current limit~~ threshold, the high side latch resets, whereby the high side ~~switch turns off. Since one charger H1 can charge a battery~~ switch turns off. Since one charger H1 can charge a battery ~~of one to six cells, while operating from a vehicle battery,~~ the inductor current, thereby, exceeds a 100mV current-limit ~~the inductor current, thereby, exceeds a 100mV current-limit~~ threshold, the high-side latch resets, whereby the high-side ~~switch turns off. As one charger H1 can charge a battery of~~ switch turns off. As one charger H1 can charge a battery of ~~one to six cells N2-N7, by operating from a vehicle battery,~~ one to six cells N2-N7, by operating from a vehicle battery, these chargers H1-H2 can charge their batteries B1-B2, while operating from an electric vehicle and not exceed the 100mV.

~~Further, the chargers H1-H2 define a DC-AC converter~~ V1, which has a plug P1 to fit an output outlet O1 about the ~~charger H1. A DC-AC converter V2 has a plug P2 in an output~~

Further, the charger H1 having a DC-AC converter V1, which defines a plug P1 to fit an output outlet O1 about the charger H1. A DC-AC converter V2 has a plug P2 in an output outlet O2 upon the charger H2. This system causes each 12 V battery B1 to B2 to charge one another by a battery-charging current, which develops a voltage across a 25-Mohms resistor R3 (FIGS. 2-3). Now, an AC adapter A1 fits a charger jack 1 by a mail plug M1 upon the charger H1. As the adapter portion A1 plugs in the converter V2, the charger H2 now outputs current that charges the battery B1. This is accomplished, only when an AC adapter A2 fits a charger jack C by use of a plug M2 on the charger H2, since the adapter A2 plugs in the converter V1. As the charger H1 is charging the battery B2, the output outlet O1 upon the charger H1 outputs 12V DC current which the converter V1 converts to alternating current. The current flows through this adapter A2, its lead, and the plug M2 via the charger jack C. This charges the battery B2 whereby, the charger H2 is likewise charging battery B1.

~~Referring to FIGS. 12-12G, a power switch 7a is seen in FIG. PS for actuating a motor M of a vehicle. A controller 60 in the vehicle has a CPU 90 for activating the switch 7a, when two transistors Q3-Q4 are triggered. A coil of two relays Y and MR each of which is hot, as the transistors Q3-Q4 are triggered. Three coils 44, 45, 46 of actuators are for turning on the chargers H1 and H2, so that two resistors R6-R7 are provided, and the LEDs Ra-Rb [[emit]] [[light]] [[.]]~~

~~Since the switch 7a is coupled to the CPU 90, a user will actuate the switch 7a and at the self same time turn on the chargers H1-H2 simultaneously. Now, this will cause the motor M to be turned on, also, seeing that the transistor Q4 is for actuating the motor M. Besides, the transistor Q4 is engineered to turn on the motor M when the foundation of the transistors Q3-Q4 are, thereby, connected to the output terminals of the CPU 90. The collector of the transistor Q3 is connected to the hot coil of the relay Y, and to a collector~~

~~bias source Vcc about the CPU 90. The emitter regarding the transistor Q3 is grounded as an end of these coils 44, and 45 of actuators for activating the charger H2 is connected to a lead of the collector bias source Vcc, the other end is thus grounded through the relay [[Y.]]~~

~~When the transistor Q3 is activated, the coil of the relay Y is hot, such that electric current flows through the coils 44-45, which turns on the charger H2 simultaneously as the switch 7a is activated. The collector of the transistor Q4 is connected to the coil of the relay MR, and to the collector bias source Vcc. The emitter of the transistor Q3 is grounded and one lead of the coil 46 of actuator for causing the motor M to be turned on is coupled to the collector bias source Vcc, while the other leads are grounded using the relay MR. The LEDs Ra Rb are connected via the collector bias source Vcc, and the other leads are grounded through the relay MR. Since the transistor Q4 is turned on by a user, the coil via the relay MR is hot, so that electric current flows through the coil 46, and the LEDs Ra Rb. The motor M is now turned on, when the power switch 7a is activated via a legal user, the switch 7a turns off the motor M as it is activated [[once]] [[more]] [[by]] [[a]] [[legal]] [[user.]]~~

Referring to FIGS. 12-12G, two switches 7a to 8a are in FIG. 7F for actuating a motor M of a vehicle. A controller 60 of the vehicle has a CPU 90 for actuating each switch 7a-8a as two transistors Q3-Q4 are triggered. A coil of two relays Y and MR each of which is hot, as the transistors Q3-Q4 are triggered. Three coils 44 to 46 of actuators are for turning on the chargers H1 and H2, so that two resistors R6-R7 are provided, and the LEDs Ra-Rb emit light.

As each switch 7a-8a is joined to the CPU 90, a user can actuate the switches 7a-8a, and at the same time turn on the chargers H1-H2 simultaneously. Now, this will cause the motor M to be turned on, also, seeing that the transistor Q4 is for actuating the motor M. Besides, the transistor Q4 is engineered to turn on the motor M when the foundation of the

transistors Q3-Q4 are, thereby, connected to the output terminals of the CPU 90. The collector of the transistor Q3 is connected to the hot coil of the relay Y, and to a collector bias source Vcc about the CPU 90. The emitter regarding the transistor Q3 is grounded, as an end of the coils 44, and 45 of actuators for activating the charger H2 is connected to a lead of the collector bias source Vcc, the other end is thus grounded through the relay Y with respect to its switch 8a.

When the transistor Q3 is activated, the coil of the relay Y is hot, such that electric current flows through the coils 44-45 which turns on the charger H2 as each switch 7a-8a is activated via a user. The collector of the transistor Q4 is connected to the coil of the relay MR, and to the collector bias source Vcc. The emitter of the transistor Q3 is grounded and one lead of the coil 46 of actuator for causing the motor M to be turned on is coupled to the collector bias source Vcc, while the other leads are grounded using the relay MR. Since the transistor Q4 is turned on by a user, the coil via the relay MR is hot, so that electric current flows through the coil 46, and the LEDs Ra-Rb. The motor M is now turned on, as each switch 7a-8a is actuated by a legal user. A surface upon the switches 7a, 8a turns on the chargers H1-H2 shown in FIG. 12, as the surface is depressed via a user.

~~Referring to FIGS. 2, 3, and 4, the activating system~~

Referring to FIGS. 2, 3 and 4, the activating system is located beneath a hood H of the vehicle. The charger H1, and its battery B1 fit in a battery box B, as the charger H2 and its battery B2 fit a battery box B3. A Polarized plug Z connecting the motor M is plugged in the DC-AC converter V1. Besides, the embodiment about the Cordless Activating System is so that an alternator XX of the vehicle is conventionally coupled about the batteries B1-B2 (FIG. 7H). An alternating voltage reverses its polarity on each alternation and reverses its direction of flow on each alternation. Nonetheless, the frequency via an AC voltage, or current is its number of  
~~cycles per second. For example, electricity being generated~~

~~by public utility companies in the United States incorporate a frequency of 60 cycles per second. The motor M will cause an alternator belt including its pulley to rotate accordingly, regarding the above modification. The alternator XX can cycles per second. For example, electricity generated about public utility companies in the United States incorporates a frequency of 60 cycles per second (60 Hz). The motor M will cause an alternator belt and its pulley to rotate accordingly, regarding the above modification. The alternator XX can supply AC current to the batteries B1-B2, while the chargers H1-H2 are charging one another. Besides, the chargers H1-H2 are defined by the PWM mode. This prevents the chargers H1-H2 from overheating when charging one another, and supplying AC current to a separate load, namely, the motor M. Now the user will not have to charge his/her vehicle, seeing that it is time consuming and annoying. Two large chargers defining two several hundred ton batteries concerning this system can operate accordingly, in Generating Stations for transmitting energy through transmission lines to varies parts of a City.~~

Cordless Activating Chargers H1-H2 perform the activation of one another, even when the motor M is turned off, seeing the batteries B1, B2 are fully charged via the alternator XX. A user will not have to charge his/her vehicle as this is time consuming and annoying. Two skyscrapers defined by two 2.5A activating chargers with two giant batteries, two converters having two adaptors coupling the converters to the chargers, as set forth above, and a giant generator thus, activated by a giant motor being turned on. This is accomplished, seeing the generator belt and pulley are rotated 60 cps/60 Hz, when the motor's polarized plug is connected to either outlet via the giant converters. Besides, the generator is coupled via the two batteries. Now, this will cause the two chargers to operate accordingly, in Generating Stations for transmitting energy through transmission lines to varies parts of a City.

A generating station is a plant, where upon electric energy is generated from some other form of energy by reason

of suitable apparatus, namely, the above **Cordless Activating Charging System**. Generators are used, which supply voltages up to **22,000 volts**. Power outputs range up to **125,000 kilo-volt-amperes (kva)**. Armature speeds range from **10-3600 RPM**. Moreover, two mini chargers, two mini converters, and a pair of button cells, **AAA, AA, C or D** batteries can actuate wrist watches, cordless phones, cell speaker phones, Laptops, CDs, many household appliances and devices about modification.

~~Now, referring to **FIGS. 2-3**, The **MAX796/MAX797/MA799** Step-Down Controllers with respect to the present invention, have the **Synchronous Rectifier for CPU Power**, and defined by single or dual outputs in battery powered systems. **IC1** is a buck mode switching regulator of which controls the external power switch **7a** and the synchronous rectifier. Now the rectifier diode in coupled inductor applications must withstand high flyback voltages better than **60V** that usually rules out most Schottky rectifiers. Common silicon rectifiers such as the **1N4001** are prohibited also, since they are far too slow.~~

Now referring to **FIGS. 2-3**, the **MAX796/MAX797/MAX799** Step-Down Controllers with respect to the present invention, have a **Synchronous Rectifier for "CPU Power,"** and defined by single or dual outputs in battery-powered systems. **IC1** is a buck-mode switching regulator of which controls the external switches **7a-8a**, and the synchronous rectifier. Now the rectifier diode in coupled-inductor applications must withstand high flyback voltages better than **60V** that usually rules out most Schottky rectifiers. Common silicon rectifiers such as the **1N4001** are prohibited also, since they are far too slow. This causes fast silicon rectifiers, such as the **MURS120** the only choice.

~~Since **IC1** comprises a charge pump for generating the positive gate drive voltage by way of **7a**, the battery charging current develops a voltage across this **25 Mohms** resistor (**R3**) that is amplified by the op amp, and thereby presented, as positive voltage feedback to **IC1**. This feedback thereby, enables this chip to maintain the charging current, thus, at~~

~~2.5A. While charging, the circuit can, also, supply current to a separate load up to a limit set by current sense transformer T1, and sense resistor R1. T1 improves efficiency by lowering power dissipation in R1. This transformer T1, now, turns ratio (1:70) routes only 1/70 about the total battery plus load current about R1, thus creating a feedback voltage enabling IC1 to limit the overall current however to a level compatible with the external components and the 100mV Limit.~~

Since IC1 comprises a charge pump for generating the positive gate-drive voltage by 7a and 8a, the battery-charging current develops a voltage across this 25-Mohms resistor (R3) that is amplified by the op amp, and thereby presented, as positive-voltage feedback to IC1. This feedback thereby, enables this chip to maintain the charging current at 2.5-A.

While charging, the circuit can also, supply current to a separate load up to this limit via current-sense transformer T1, and sense resistor R1. T1 improves efficiency by lowering power dissipation in R1. This transformer T1, now, turns ratio (1:70) routes only 1/70 about the total battery-plus-load current via R1, thus creating the feedback voltage enabling IC1 to limit the overall current however to a level compatible with the external components and the 100mV Limit.

Buck-plus-flyback applications, are sometimes called "coupled-inductor" topologies, however need a transformer in order to generate multiple output voltages. The basic electrical design is a simple task via calculating turns ratios, and adding the power delivered to the secondary in order to, thus calculate the current-sense resistor and primary inductance. However, extremes of low input-output differentials, widely different output loading levels and high turns ratios can thus, complicate the design due to parasitic transformer parameters, such as inter-winding capacitance, and secondary resistance. Power from the main and secondary outputs thus, is lumped together to obtain an equivalent current referred, however to the main output voltage. Set the value about the current-sense resistor at  $80\text{mV} / \text{TOTAL}$ .

PTOTAL = the sum regarding the output power from all outputs  
 $TOTAL = PTOTAL / V_{OUT}$  = the equivalent output current referred to  $V_{OUT}$

$$L \text{ (Primary)} = \frac{V_{OUT} (V_{N(MAX)} - V_{OUT})}{V_{N(MAX)} \times f \times TOTAL \times LIR}$$

$$\text{Turns Ratio } N = \frac{V_{SEC} + V_{FWD}}{V_{OUT(MIN)} + V_{RECT} + V_{SENSE}}$$

where:  $V_{SEC}$  is the minimum required rectified secondary-output voltage

$V$  is the forward drop across the secondary rectifier

$V_{OUT(MIN)}$  is the minimum value of the main output voltage

$V_{RECT}$  is the on-state voltage drop across the synchronous-rectifier MOSFET

$V_{sense}$  is the voltage drop across the sense resistor

In positive-output (**MAX796**) applications, the transformer secondary return is often referred to the main output voltage rather than to ground in order to thereby reduce the needed turns ratio. Now in this case, the main output voltage must first be subtracted from the secondary voltage thus to obtain  $V_{SEC}$ .

As a rule, the basic **MAX.797** single-output 3.3V buck converter (**FIG. 10G**) is designed to accommodate a wide range of applications with inputs up to 28V. While, each of these circuits is rated for a continuous load current at  $T_A = +85^\circ\text{C}$ , various applications can withstand a continuous output short-circuit to ground. Heavy-load efficiency **MAX492/MAX494/MAX495** can drive capacitive loads in excess of 1000pF, however, under certain conditions (**FIG. 7G**). When driving capacitive loads, the greatest potential for instability, thus, occurs,

when the op amp is sourcing approximately 100uA. Even, with this system, stability is maintained with up to **400pF** output capacitance. Now, if the output sources either more or less current, stability is increased. These devices perform well with a **1000pF** pure capacitive load, nonetheless, to increase stability, while driving large capacitive loads with respect to **10,000pF** add an output isolation resistor.

Output loading and stability when driving heavy capacitive loads is another key advantage about comparable **CMOS** rail to rail op amps. Because the **MAX492/MAX494/MAX495** have excellent stability, no isolation resistor is required, only in the most demanding applications is it required. The **MAX797** is a **BICMOS** switch-mode power-supply controller designed primarily for buck-topology regulators about battery-powered applications, where high efficiency and low quiescent supply current are critical. The **MAX797**, also, works well in other topologies such as boost, inverting and CLK due to the flexibility of its floating high-speed gate driver.

Moreover, the internal **IC PWM** Controller Blocks, and Bias Generator Blocks aren't powered, directly from the battery. Instead, a +5V linear regulator, thus, steps down the battery voltage to supply both the **IC** internal rail (**VLpin**), as well as the gate drivers. As the synchronous-switch gate driver is directly powered from +5V VL, the high-side-switch gate driver is indirectly powered from VL with respect to an external diode-capacitor boost circuit. Notwithstanding, an automatic bootstrap circuit turns off the +5V linear regulator, and powers the **IC** from its output voltage if the output is above 4.5V. This can actuate another system about fault.

Referring to **FIGS. 5-6**, the chargers **H1-H2** have dual battery cartridges **98** to **99** for renewing battery life to the batteries **B1** and **B2**. As shown in **FIG. 7**, a light activating drive circuit **Z1** controls a gear motor **GM** that is positioned in the cartridge **98**. The circuit **Z1** is also included in the cartridge **99** for activating another gear motor **GM**, which has a gear **MG** about a shift **38**, and is actuated by a **CMOS** op amp

**IC1.** Notwithstanding, the **IC1** is used as a voltage comparator, which scans the levels of two input voltages, and turns its output on, or off based on, which input voltage is more. The input of pin 2 is fixed to a reference voltage of almost half the supply voltage by **R3-R4**, when the input on pin 3 is connected to a voltage divider **R1**, and one potentiometer **R2**. The resistance about a photocell changes, as the **LED 0** emits light, the light intensity is thereby, indicatively shown by the voltage on pin 3 of **IC1**. The light level which turns on this circuit is set by **R2**. The output of pin 6 is turned on via **R5**, when the voltage about pin 3 of **IC1** is more then pin 2. The output of **IC1** drives a transistor **Q1** so the transistor **Q1** turns the gear motor **GM** on, and off by the op amp.

As this **LED 0** starts the motor **GM**, the motor gear **MG** is rotated clockwise, such, as to rotate an Electrolyte gear **EG**, and a Sulphuric Acid gear **AG** counter clockwise. This is performed simultaneously since the gear **MG** is placed between both gears **EG**, and **AG** so that two cone shaped plugs **1M** to **2M** ~~are rotated upward from two drain holes 39-40. The plugs 1M~~ are rotated upward from two drain holes **59-60**. The plugs **1M** and **2M** are secured, below two helixes **41-42**. Two perforated ~~blocks **jj** **kk** having internal screw thread for receiving each~~ blocks **jj**, **kk** have internal screw threads for receiving each helix **41-42**. The gear **EG** is secured about the helix **41**, and the gear **AG** is secured upon the helix **42**. The cartridges **98** and **99** have two tubs, namely, **EL** and **SA**. The tubs **EL** and **SA** are divided by two walls **4Z-5Z**. The wall **4Z** includes a plug **6Z** in its hole **H5**, and the wall **5Z** defines a plug **7Z**, in its hole **H7**, so that the plug **6Z** is connected to the helix **41** by a wire **W1**, and the plug **7Z** is connected to the helix **42** by a wire **W2**. As a result, when the **LED 0** turns on the motor **GM**, as the gear **MG** is rotated clockwise, the plugs **6Z-7Z** each of which is yanked from the holes **H6-H7** by the wires **W1-W2**. As the plugs **6Z-7Z** are jerked by the wires **W1-W2**, the Sulphuric Acid, and the Electrolyte flows through the walls **4Z-5Z** such that the Electrolyte can dissolve accordingly.

The nonmetallic electric conductor Electrolyte about which current is carried on an atom, as ion, or the movement of ions occupies the tub EL. Besides, this atom ion carries a positive, or negative electric charge which is a result of having lost or gained one or more electrons. Electrolyte is a substance so that when dissolved in Sulphuric Acid becomes a fused ionic conductor. Thus, this Sulphuric Acid occupies the tub labeled SA.

Now, both floor surfaces 49-50 define an acute angle so that the Electrolyte, and the Acid can drain smoothly via ~~the drain holes 39-40, thus, into a six cell feeder F6. The six cell feeder having six internal seals for preventing the Electrolyte, and the Acid from draining in the batteries B1-B2 before being appropriately dissolved. When the Acid, and the Electrolyte are defined, as a fused ionic conductor, the six seals will breakdown such that the fused ionic conductor will penetrate each seal. Upon penetration, the six battery cells of B1-B2 are replenished, seeing six extended portions below the feeder F6 are shaped to conform to the contours of each cell. Now, this generates the voltage in the batteries B1-B2 to a fully charged voltage status about modification.~~

~~The batteries B1-B2 each of which is not as heavy as a lead storage cell, and has a longer life. These batteries B1-B2 requires less attention, and care, as they can be completely discharged and left uncharged for an indefinite time period. This abusive treatment would ruin a lead cell. Now the drain holes 59-60 in two six cell feeders F6 and X. The six cell feeders F6, and X have six inner seals X2-X7, S2-S7 to prevent the Electrolyte, and the Acid from thus, draining via each battery B1-B2 before being defined as a fused ionic conductor when the Electrolyte is dissolved accordingly, the six seals X2-X7, S2-S7 will collapse and the ionic conductor will penetrate each seal. Where upon penetration, the cells N2-N7, U2-U7 via the batteries B1-B2 are restored, since six extended and cylindrical shaped portions beneath the feeders F6 and X are shaped to conform to the contours of each cell.~~

This generates the voltage via each battery B1-B2 to a fully charged voltage status of the above modification.

The batteries B1, and B2 each of which is defined by having a longer life. The batteries B1 and B2 requires less attention and care, as they can be completely discharged and left uncharged for an indefinite time period. Nevertheless, when the internal resistance via the batteries B1-B2 each of which is defined by having very little resistance, and their ~~life expectancies are near, the LED 0 can emit light about a~~ life expectancies are near, the LED 0 will emit light upon a dashboard (FIG. 7F). The cartridges 98-99 each of which can extend by cutouts 3B-3C of the chargers H1-H2. The lower end portions of the cartridges 98-99 will fit two cutouts 5C-6C, thus, in two battery charging housings H1-H2 [[.]] (FIG. 1).

As shown in FIG. 12H, a step-by-step flow-chart thus is provided.

Step 1, the first and second power switches 7a to 8a are activated simultaneously, by a user depressing a surface which is fixed upon the two switches 7a-8a (FIG. 12), and on the dashboard as shown in FIG. 7F.

Step 2, the first and second activating chargers H1-H2 are activated, and perform the activation of one another.

Step 3, the chargers H1 to H2 supply AC current to a separate load about the 100mV current-limit threshold, while activating one another, and turning on the motor M, when its polarized plug Z is connected to the first converter V1.

Step 4, the vehicle is started via the motor M being turned on, as its belt pulley is connected to the alternator belt, when the other end of the alternator belt is connected to the pulley of the alternator XX (FIG. 7H).

Step 5, the alternator XX is connected to the first, and second batteries B1-B2 to keep the batteries charged, so that these chargers H1-H2 can charge one another, supply the current to the motor M, and start the vehicle.

Step 6, the motor M activates the alternator XX such that it is defined by a frequency of 60 cycles per second.

Step 7, the 60 cps/60 Hz generated by the alternator XX activate the batteries B1-B2.

Step 8, the batteries B1-B2 activate the chargers H1 and H2.

Step 9, the chargers H1-H2 activate one another such that in Step 10, the motor M is turned on until a legal user deactivates the first, and second switches 7a-8a.

The first and second switches 7a-8a can be activated simultaneously, and in the same manner set forth in our U.S. Patent No.: US 6,614,920. Date of Patent: 09/02/2003. The switches 7a-8a will be remotely activated, as shown in FIGS. 7F, 8F via bona fide fingerprints about a mid door location.

While the above description contains many specifics, of which should not be construed as limitations on the scope of the invention, variations and modifications will be apparent to persons skilled in the art. E.g., the motor M is to include varietal speed switches having a system, whereby, to deliver a top speed of 150 mph via a foot pedal FP, as shown in FIG. 8F. Nevertheless, all electrically operated musical instruments will be turned on, when plugged in either outlet via the converters V1 to V2, and the switches 7a, 8a each of which is activated. The present invention can be defined by cordless milling machines, drill presses, pastuerizers, outdoor lights, milk coolers, cream separators, vacuum cleaners including televisions, stereos, CD players, electric ranges, large grills, large rotisseries, power saws, lathes, washers defined by dryers, water pumps, hammer mills, refrigerators, and freezers. Now, smaller devices can be plugged in either converter V1-V2 with respect to the cordless actuating unit. The actuating system can perform the activation of toasters, coffeemakers, food mixers, deep fryers, blenders, hand irons even air conditioners, roasters, heaters, hot water heaters, all manner of lamps, fans, stoves, and electric shavers.